



L-3 Communications - Who We Are

Integrated Systems

4/97 Ten Business Units Divested by LMT to form L-3

Lanza, LaPenta, Lehman Brothers - 1996 Revenues \$665M - Solid Companies, Strong Financials

2/98 Acquired Satellite Transmission Systems from California Microwave

2/98 Acquired ILEX Systems (private)

3/98 Acquired Ocean Systems from Allied Signal

5/98 Initial Public Offering (NYSE:LLL)

8/98 Acquired SPD Technologies (private)

9/98 Acquired Storm Control Systems (private)

1/99 Acquired Microdyne Corporation (NASDAQ/NM:MCDY)

2/99 Follow-on Public Offering

4/99 Acquired Aydin Corporation (NYSE:AYD)

6/99 Acquired Interstate Electronics Corp. from Scott Technologies

12/99 Acquired Space and Navigation from AlliedSignal

2/00 Acquired LNR & EMP of Trex Communications Corporation

2/00 Acquired Training Devices & Training Services from Raytheon

4/00 Acquired TCAS Product Line from Honeywell

6/00 Acquired MPRI

12/00 Acquired Coleman Research Corporation

5/01 Acquired KDI Precision Products, Inc.

5/01 Acquired EER Systems Inc.

11/01 Acquired Spar Aerospace

11/01 Acquired Emergent Government Services Group

12/01 Acquired the Defense Business of Bulova Technologies

12/01 Acquired Scandia Technologies

12/01 Acquired SY Technology Inc

1/02 Under Contract to Acquire PerkinElmer's Detection Systems

3/02 Acquired Aircraft Integration Systems (AIS) from Raytheon



A Major Player in the Defense Electronics Field





Interoperability

Integrated Systems

interoperability 1. The ability of systems, units, or forces to provide services to and accept services from other systems, units, or forces and to use the services so exchanged to enable them to operate effectively together.

from Joint Pub 1-02 - Department of Defense Dictionary of Military and Associated Terms

"Interoperability is the ability of systems, units, or forces to provide data, information, materiel, and services to and accept the same from other systems, units, or forces, and to use the data, information, materiel, and services so exchanged to enable them to operate effectively together."

From the Acquisition Deskbook





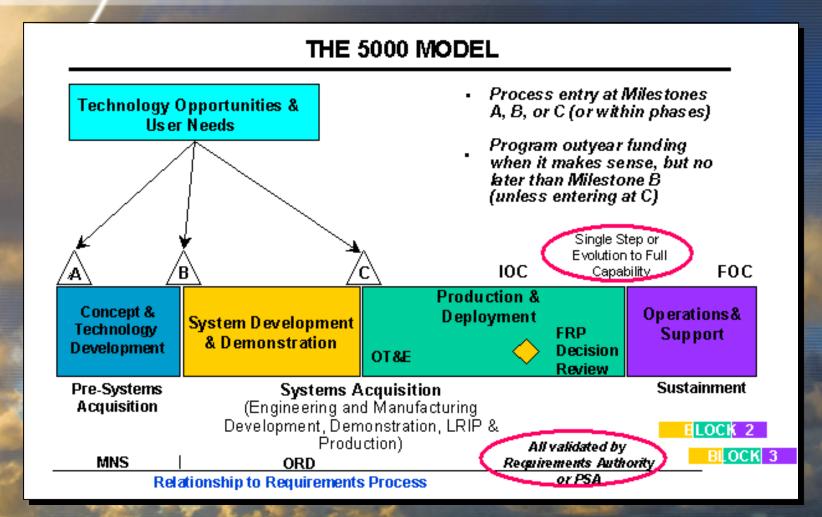


The Devil Is in the Details



DOD - Industry Interoperation

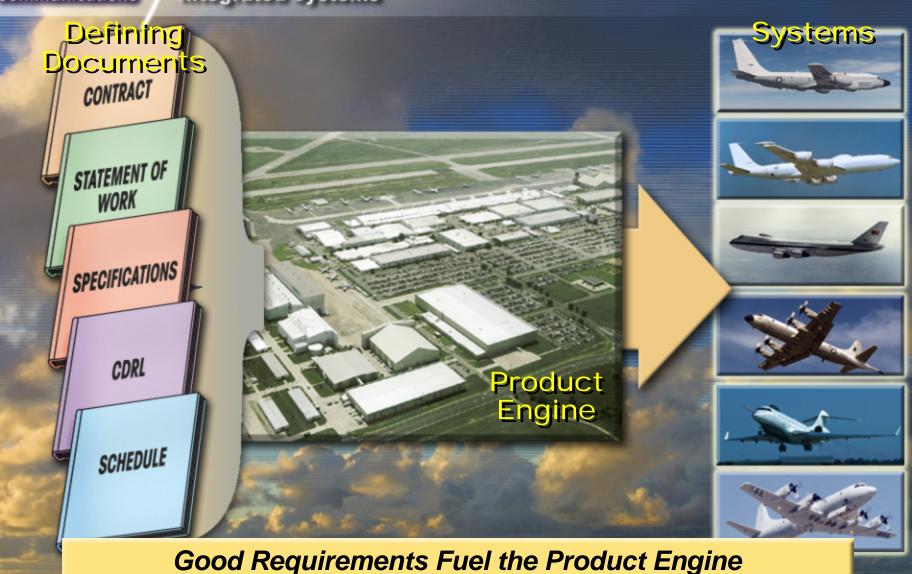
Integrated Systems



Interoperability Opportunities Abound ... Challenges Do Too!



The Business Cycle - Level 1





Business Cycle - Level 2

Integrated Systems



EIA 632







Product Engine



The Nuts and Bolts



Requirements Definition- Where the Action Is

Integrated Systems







Pull

Obtain data and information you need or want

Push

Receive data and information you don't need - sometimes "spam"-like

Design

Define what you want, not how to do it

COTS

Reuse

Remember fast moving commercial products tend to clash with legacy system commonality

Recognize that dictates of common material (hardware and software) sometimes diametrically oppose COTS

Upgrades

Block 3

Target

Block 1

Block 2

Control

Define requirements to tell platform what you need, rather than taking control of sensor - chaos

Promote discussions and collaboration in establishing requirements ... different from "telling"

Discussion, Collaboration

Requirements Can Be Intrusive or Non-intrusive



Requirement Impact Assessment Framework

Integrated Systems

Interoperability capability

Low hanging fruit – grab 'em

CAIV time!

Is it worth doing?

– go for it

Not likely

"Cost" of implementation

Capabilities Must Be Measured Against Cost



Framework Reality Sets In

Integrated Systems

Interoperability capability

Low hanging fruit – grab 'em

CAIV time!

Is it worth doing?

– go for it

Not likely

"Cost" of implementation

Real-World Boundaries Are Less Defined



Where Do the Requirements Land?

Integrated Systems

interoperability capability



"Cost" of implementation

Intrusive Requirements Push to the Right



The Moving Target





The Interoperability Objective





Summary - Interoperability Express

